

INTERNATIONAL SEARCH REPORT

International Application No.

PC 03/03275

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02M3/158

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 949 739 A (MATSUSHITA ELECTRIC INDUSTRIAL) 13 October 1999 (1999-10-13) the whole document	1-13
A	US 4 816 739 A (TADASHI MASAHIRO ET AL.) 28 March 1989 (1989-03-28) abstract figure 2 column 2, line 3 - line 10	1

☐ Further documents are listed in the continuation of box C:☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

8 document member of the same patent family

Date of the actual completion of the international search

1 August 2003

Date of mailing of the international search report

08/08/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lund, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/03275

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 949739	A	13-10-1999	CN 1234643 A , B	10-11-1999
			EP 0949739 A2	13-10-1999
			JP 11353040 A	24-12-1999
US 4816739	A	28-03-1989	JP 1069264 A	15-03-1989
			JP 1756179 C	23-04-1993
			JP 4044507 B	21-07-1992
			DE 3829557 A1	30-03-1989